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NutriKane™

TO LOWER & CONTROL BLOOD SUGAR LEVELS

MediKane has sourced high quality foods from trusted suppliers, analysed their nutritional and medical value, then formulated them into a management program. We then specifically test the product that is in our tub – in exactly the same way a pharmaceutical company would develop a new drug. In the last 7 years we have partnered with 3 of Australia's most prestigious universities and run 6 clinical trials with hospitals and health professionals that proved the effectiveness of NutriKane D in treating intestinal disorders, and improving blood sugar levels. Even more important, our products have been extensively used "in the field" by healthcare professionals who have found that adding NutriKane D to a person's normal lifestyle results in a better quality of life. Our commitment to good science and real products continues with 5 clinical trials and 4 new products planned.



NutriKane D is a safe, natural food provided in an easy to use dose via a scoop inside the tub. It contains all of the types of dietary fibre (not just simple soluble fibre), resistant starch and a wide range of essential micronutrients that have been shown to not only aid the maintenance of the microbiome but also reduce inflammation and in doing so help control blood sugar levels.

MediKane Holdings markets NutriKane D. MediKane takes a *farmerc eutical* approach to blend nature and science, creating a real, complex food with a controlled dosage to obtain scientifically proven results for our customers.

NutriKane D Product Summary

1

NutriKane D is clinically and scientifically proven to help improve Blood Sugar Levels (BSLs)

2

It improves insulin sensitivity which means less insulin is required. It has been shown to slow long-term deterioration of symptoms

3

NutriKane D utilises 3 different Modes of Action each of which directly assists management of BSLs. Being a complex food, multiple factors impact each pathway

4

Unlike simple supplements, NutriKane D contains soluble and insoluble fibres, resistant starches, antioxidants and essential minerals, all in bio-available forms the body needs to manage BSLs and improve the microbiome

5

NutriKane D can provide an essential part of what is often missing from a healthy diet

6

NutriKane D directly promotes good intestinal health. It is well known to the medical community that a healthy microbiome has positive effects not only on BSLs but a range of conditions from weight loss to mental health

The goal is to continue development and deliver a true cure. A current collaboration with prominent Australian universities and a Sydney hospital has shown this result may be within reach

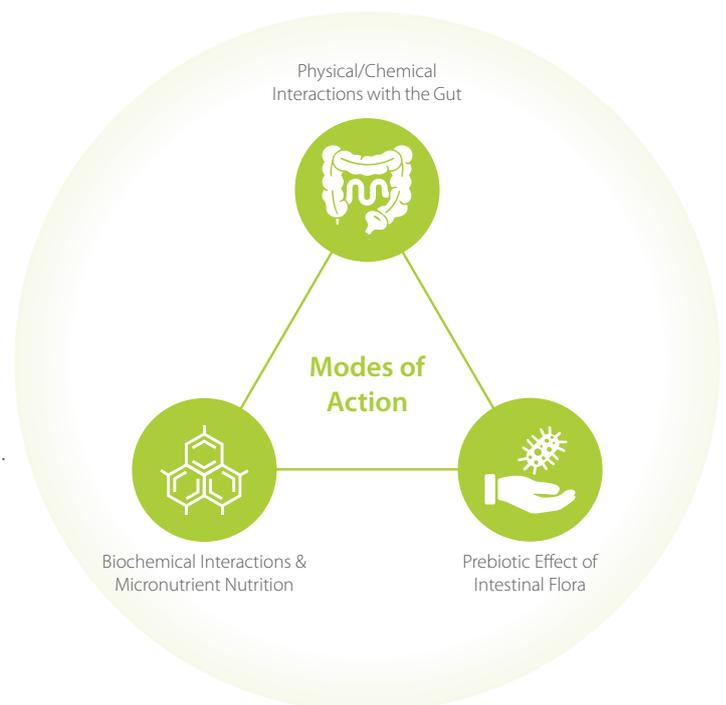
Key Mechanisms

NutriKane D generates a complex combination of effects that produce the overall health outcomes

There are three basic classes of Modes of Action:

- Physical/chemical interactions with the gut
- Direct absorption of biochemically active micronutrients
- Prebiotic effect on intestinal flora

There are multiple actions underpinning these three interactions. The combination of effects is the key



Publications & Trials					
	Focus	Title	N*	Publication	Summary of Outcomes
1	Blood Sugar Management	Efficacy of a defined food product (NutriKane D) in improving blood sugar level and bowel dysfunction in adult diabetic subjects: a randomised controlled trial	51	Physical Medicine and Rehabilitation - International. Peer Reviewed Journal, October 2018	<ul style="list-style-type: none"> • Significant drop in fasting glucose levels under a controlled hospital stay. This improvement was maintained more effectively when the patients went home (compared to hospital care alone) • Significant reduction in Body Mass Index whilst in the hospital • HbA1c reduced • Over 70% of participants were happy with NutriKane D (compared to less than 50% for medications)
2	Hospital Opioid Induced Constipation	Evaluation of the structured bowel management program in inpatient rehabilitation - a prospective study	100	Disability and Rehabilitation. Peer Reviewed Journal, September 2015	<ul style="list-style-type: none"> • 63% of participants were displaying constipation even though they were using current treatments including fibre supplements and stimulant laxatives • 85% of participants experienced improvements in bowel function and overall wellbeing as a result of the trial • Cognitive function and overall quality of life was also increased as a result of the intervention
3	Intestinal & Digestive Health	Rehabilitation outcomes in persons with spina bifida: a randomised controlled trial	54	Journal of Rehabilitation Medicine. Peer Reviewed Journal, October 2015	<ul style="list-style-type: none"> • The NutriKane D group experienced significant improvement in bowel function, cognitive function and overall quality of life compared to the control group • 55% of participants in the control group reported improved bowel function with NutriKane D use after the direct intervention stage had ceased
4	Modes of Action to improve management of blood sugar levels	3 x PhD theses on microbiome interactions, anti-inflammatory effect, and nutrient composition		<p>Bucio-Noble, D. Nutraceutical properties of whole dried sugarcane extracts studied by proteomics. 2017, PhD thesis, Macquarie University, Sydney, Australia</p> <p>Gamage, H. K. A. H. Investigating the impact of dietary fibre on the gut microbiota. 2017, PhD thesis, Macquarie University, Sydney, Australia</p> <p>Chong, R. W. W. Investigating the influence of dietary fibre on intestinal health. 2018, PhD thesis, Macquarie University, Sydney Australia</p>	<ul style="list-style-type: none"> • Proven positive effect on the microbiota in the intestines which in turn produces secondary nutrients (short chain fatty acids) that improve blood sugar control and reduce inflammation • Identified anti-inflammatory pathways and determination that they are different from those found in resveratrol • Identification of several essential micronutrients and proof that they are bound to the matrix in a biologically active form • Identification of disease specific improvements to blood sugar management and inflammation • Proof that including NutriKane D into an intermittent fasting diet maintains healthy microbiome resulting in better health for people looking to improve BSL management • Proof that consuming NutriKane D results in changed interactions between the gut microbiome and the intestinal wall that results in modified signaling in the body

* Number of participants



NutriKane DTM
FOR LOWER BLOOD SUGAR LEVELS

Minerals	mg/kg	% RDI per serve	Benefit
Chromium	7.6	88.67%	Essential to blood glucose management and insulin sensitivity
Selenium	2.4	12.92%	Antioxidant, essential to enzyme function, selenoproteins are instrumental in reducing inflammation
Iron	217	5.84%	Essential component of haemoglobin and myoglobin - major components of blood and muscle functionality
Molybdenum	0.4	7.78%	Essential for the body's detoxification enzymes. Removes aldehydes and the toxic products of metabolism. Essential for cell function
Potassium - sugarcane fibre	541	0.06%	Essential to neural function. Maintains heart health and reduces hypertension
Sodium	15	0.01%	Essential to neural function, one of the cornerstone minerals to life. Sodium deficiency affects every cell in the body
Zinc	21.7	0.25%	Essential to immune system and enzymatic function
Magnesium	795	0.75%	Multiple functions including sugar metabolism and insulin sensitivity, muscle and enzyme function
Manganese	123	8.20%	Essential for bone formation and the metabolism of carbohydrate and amino acids
Calcium	690	0.21%	Essential for bone development. Important for enzymatic function
Silica	175	*	Essential for bone and connective tissue development. Aids in the absorption of other minerals. *No RDI has been determined though maximum tolerance is 30mg.
Copper	17.5	4.22%	Essential for Iron utilisation, connective tissue and the immune system
All ingredients are tested for purity and presence of nutrients with each production run to guarantee efficacy. Recommended Daily Intake / Adequate Intake values are the average of male and female - NHMRC			

NUTRITIONAL INFORMATION		
Serving size: 6.5g		
	Ave Qty Per Serve	Ave Qty Per 100g
Energy	69 kJ	1057 kJ
Calories	16.4	252.7
Protein	0.3 g	4.3 g
Fat, Total	0.1 g	2.0 g
- saturated	0.0 g	0.4 g
Carbohydrate	1.6 g	25.0 g
- sugars	0.2 g	2.3 g
Dietary Fibre	3.2 g	48.8 g
Sodium	1.3 mg	19.5 mg
Potassium	4.0 mg	61.4 mg

How to Use NutriKane

Add a level scoop of NutriKane D into a glass with approximately 250ml of water; stir well. For best results consume before or during meals.

When mixed, NutriKane D has the appearance and flavour of a natural, orange drink. It contains functional fibres which you may notice while drinking. Add additional water to reduce the natural sweetness and mouthfeel if required. Alternatively, stir into juice, yoghurt or smoothies.

Recommended Dosage

- **12 year to adults:** one scoop twice a day (morning and evening)
- **5-11 years:** one scoop per day
- **Not recommended for children under 5**

Ingredients

Sugarcane stem (sugar removed), red sorghum, ascorbic acid and citric acid (acidity regulators), natural orange flavour, natural beta carotene, vegetable gum, stevia (natural sweetener).

NutriKane D contains NO Artificial colours, flavours, preservatives or chemical stimulants.

- ✓ Gluten Free
- ✓ Non GMO
- ✓ Hypoallergenic
- ✓ Low FODMAP

References

Representative References below; for a full list of references please visit www.nutrikane.com.au

1. Amaty, B. et al. (2015). "Evaluation of the structured bowel management program in inpatient rehabilitation: a prospective study." *Disabil Rehabil*: 1-8.
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5. Chong, R. W. W. et al. (2019). "Comparing the chemical composition of dietary fibres prepared from sugarcane, psyllium husk and wheat dextrin." *Food Chem* 298: 125032.
6. Gamage, H. et al. (2018). "Fiber Supplements Derived From Sugarcane Stem, Wheat Dextrin and Psyllium Husk Have Different In Vitro Effects on the Human Gut Microbiota." *Front Microbiol* 9: 1618.
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9. Khan, F. et al. (2015). "Rehabilitation outcomes in persons with spina bifida: A randomised controlled trial." *J Rehabil Med*.
10. Lee, S. Y. et al. (2018) "Efficacy of Dietary Sugarcane Product on Bowel Function and Blood Sugar Level in Adult Diabetic Patients: A randomized Controlled Trial."